Notice of Allowability	Application No.	Applicant(s)	
	10/828,396	GLOVATSKY ET AL.	
	Examiner	Art Unit	
	Robert J. Hoffberg	2835	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commur GHTS. This application is su	this application. If not includ nication will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to <u>4/20/04</u> .			
2. The allowed claim(s) is/are 1-31.			
<ol> <li>Acknowledgment is made of a claim for foreign priority until a)</li> <li>All b)</li> <li>Some* c)</li> <li>None of the:</li> <li>1.</li> <li>Certified copies of the priority documents have</li> <li>2.</li> <li>Certified copies of the priority documents have</li> <li>3.</li> <li>Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received: <ol> <li>* Certified copies</li> </ol>	been received. been received in Application	No	ition from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the re	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
<ul> <li>5. CORRECTED DRAWINGS ( as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposit of the deposit</li></ul>	con's Patent Drawing Review  s Amendment / Comment or i  84(c)) should be written on the he header according to 37 CFR sit of BIOLOGICAL MATE	n the Office action of e drawings in the front (not the t 1.121(d). RIAL must be submitted.	
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4/20/04</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6.	ormal Patent Application (PTommary (PTO-413), fail Date the mendment/Comment statement of Reasons for Allo LYNN FEILD SUPERVISORY PATENT EXA TECHNOLOGY CENTER 2	owance - MINER

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# Detailed Action EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: Page 6, Para. 0020, line 6 "slots 260" to --slots 250--.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Michael N. Spink (Tel. 734-302-6000) on 5/4/06.

## **Drawings**

1. The drawings are objected to because #144 is not shown. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top

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margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Allowable Subject Matter

### 2. Claims 1-31 are allowed.

The following is an examiner's statement of reasons for allowance: The allowablility resides in the overall structure of the apparatus as recited in independent claim 1 and at least in part, because claim 1 recite integrated vehicle structure including "an electronic site", "a flexible substrate", "electronic components", "a plastic support structure" including "a plurality of elongated ribs" and "a plurality of air passageways". The allowablility resides in the overall structure of the apparatus as recited in independent claim 22, and at least in part, because claim 22 recite integrated vehicle structure including "an electronic site", "a flexible substrate", "electronic components", "a metal support structure", "a plastic support structure" including "a plurality of elongated ribs" and "the flexible substrate being mounted to both the plastic mounting surface and the and metal mounting surface".

The aforementioned limitations <u>in combination</u> with <u>all</u> remaining limitations of the respective claims are believed to render said independent claims 1 and 22 and all claims dependent therefrom patentable over art of record.

3. The closest references to the present invention are believed to be as follows: Woodman et al. teaches (WO 03/063300) an electronic site having a substrate with

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electronic components mounted thereon on a plastic support structure with a plurality of ribs, but fails to disclose a metal support structure and a plurality of air flow passageways defined by adjacent ribs.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Takiguchi et al. (US 5,856,908) discloses a flexible substrate mounted on a support structure. Glovatsky et al. (US 6,669,273) discloses a metal or plastic support structure for an electronic site having a substrate with electronic components mounted thereon. Jairazbhoy et al. (US 5,669,813), Glovatsky et al. (US 5,706,170) and Allison et al. (US 5,979,540) disclose using an air passageway to provide air flow on a substrate with electronic components mounted thereon on a cross car structure. Sinkunas et al. (US 5,715,140) discloses a flexible substrate with electronic components mounted for heat dissipation on an air passageway on a cross car structure. Baker et al. (US 7,000,969) discloses a cross car structure for electronic components. Carpenter et al. (US 4,750,087) teaches air passageways formed by adiacent ribs in a support structure

None of the cited references, either taken alone or in combination is believed to render the present invention unpatentable as claimed.

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert J. Hoffberg whose telephone number is (571) 272-2761. The examiner can normally be reached on 8:30 AM - 4:30 PM Mon - Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild can be reached on (571) 272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RJH P/HWY

Jy D. 7 **LECHNOFOGA CENTER 2800** SUPERVISORY PATENT EXAMINER

**TANN LEILD**